Oil Field Environmental Incident Summary

Incident: 20160712090340 ***Date/Time of Notice:*** 07/12/2016 09:03
Responsible Party: HESS BAKKEN INVESTMENTS II, LLC
Well Operator: HESS BAKKEN INVESTMENTS II, LLC
Well Name: FRYBURG HEATH-MADISON UNIT H-812
Field Name: FRYBURG ***Well File #:*** 4320
Date Incident: **7/11/2016** ***Time Incident:*** 09:15 ***Facility ID Number:***
County: BILLINGS ***Twp:*** 139 ***Rng:*** 101 ***Sec:*** 11 ***Qtr:***
Location Description:

Submitted By: Vicky Sund ***Received By:***

Contact Person: Vicky Sund
1501 MCKINNEY
HOUSTON, TX 77010

General Land Use: Pasture ***Affected Medium:*** Soil and Water

Distance Nearest Occupied Building:
Distance Nearest Water Well:

Type of Incident: Equipment Failure

Release Contained in Dike: No ***Reported to NRC:*** Yes

	Spilled	Units	Recovered	Units	Followup	Units
Oil	200	Barrels	160	Barrels		
Brine	225	Barrels	80	Barrels		
Other						

Description of Other Released Contaminant:
Discharge from tank, combined with rain water pooled inside of berm and on site from the significant rainfall which occurred on the evening of 7.10.16

Inspected: ***Written Report Received:*** ***Clean Up Concluded:***

Risk Evaluation:
Source of spill was stopped and spill contained. Booms were utilized on creek to eliminate further migration of oil sheen down stream.

Areal Extent:
Release migrated onto adjacent pasture land & into creek with a total of 40 BO went off site.

Potential Environmental Impacts:

Short and long term environmental impacts will be evaluated and reported at a later time.

Action Taken or Planned:

Source of spill was stopped and contained by mid morning. Earthen berm was constructed to stop flow of any additional product entering creek. Creek was boomed off and absorbents were used to start recovery of oil sheen on water. Currently 160 barrels of oil and 80 barrels of produced water have been recovered.

Wastes Disposal Location: Location of disposal will be determined and then reported to the NDIC

Agencies Involved: US Forest Service
ND DoH
Billings Co LEPC

Updates

Date: 7/11/2016 ***Status:*** Inspection ***Author:*** Cooper, Mike

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Arrived on site at 4:40 p.m. 66 degrees F, wind 20-25 mph NW.
Pictures taken.
Met with Hess contacts, and they described the situation to me.
A test tank overflowed (oil/saltwater) due to downed communication links within the area.
The flow breached the containment berm on the well pad and flowed to the SW corner of the wellpad.
Due to excessive precipitation from the night before, the volume of oil/saltwater breached the secondary containment berm and flowed onto U.S. Forest Service land.
Flow followed the natural drainage pathway and did get into Sully Creek. Observations show that this creek has minimal flow.
Based on observations from U.S. Forest Service, NDIC representatives,
and Hess employees, it seems they were able to stay ahead of the flow and apply containment measures before any further migration occurred.
I walked the creek about 1/2 mile downstream and did not see any impacts.
I did see visible sheen in the water when the inspection occurred. Multiple absorbent booms are in place and will be replaced periodically throughout the remediation.
Permission was given by the railroad and county for Hess to block off the culvert to the west near the RR tracks for the time being, thus ensuring the restriction of water flow after the release.
Soil conductivity readings were taken sporadically throughout the contaminated area. Conductivity readings ranged from 4 millisiemens to12 millisiemens.
I talked with Jason Dalen (Hess HSE Supervisor).
Jason showed me a written document from Carmen (U.S. Forest Service) indicating that a soil wash method of remediation would be used.
He is scanning these documents and sending them via e-mail for documentation purposes
to U.S. Forest Service and Hess; both took Sully Creek water samples.
Hess has built up the secondary containment berm on the SW, so excess product will not migrate.
Product on site will be excavated and disposed. Other free-flowing product will be sucked up using vac trucks/water trucks.

Plan: Environmental contractors (Baranko Bros.) have built a containment berm along the natural

drainage to filter contaminants into one area.
An excavator was used to dig a gathering pit for product to flow into when soil washing begins. Contaminants will then be profiled and hauled for disposal.
Note: I did recommend to Andy Larsen (EHS analyst - production) that a focused effort will be needed when washing starts, as in the past it has made situations worse.

Date: 7/12/2016 ***Status:*** Inspection ***Author:*** Cooper, Mike

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Returned to take water samples from Sully Creek.

Sample #1: Taken closest to release point
Sample #2: Front of last boom
Sample #3: Behind last boom
Sample #4: Upstream sample

Chloride strips showed readings of 350-400 ppm - taken from pad. Chloride strips taken from creek did not show up on low range strips.
Creek is mostly standing still, as the temporary dam is still in place across the road to the west.

Progress: On-site contamination has been decreased. No work has been done on U.S. Forest Service land.

Date: 7/12/2016 ***Status:*** Reviewed - Follow-up Required ***Author:*** Souder, Taylor

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

According to the report, the release of emulsion was not contained to the well pad. Further follow-up needed.

Date: 7/13/2016 ***Status:*** Inspection ***Author:*** Cooper, Mike

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Day 3:
Soil washing has begun with BioCal. U.S. Forest Service rep is on site monitoring the process. The vegetation in the contaminated drainage areas has been cut and disposed of.
Contamination is more visible. Pictures taken. A temporary dirt berm also has been built to funnel contaminants from washing into a gathering pit.
Another temporary berm has been built to separate the creek from the gathering pit (close proximity). Pictures taken.
Hess is using a hot oil truck for the water and a vac truck to suck up contaminants.
Creek is mostly standing still, as the temporary dam is still in place across the road to the west.

Date: 7/19/2016 ***Status:*** Correspondence ***Author:*** O'Gorman, Brian

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Received an email (7/14/16) from the company's environmental consultant stating the work plan will be using in-situ remediation of the impacted area. Email added to the folder. More follow-up needed.

Date: 7/21/2016 ***Status:*** Inspection ***Author:*** Stockdill, Scott

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Arrived on location 2:38, 7/21/2016.

Significant amount of oil staining to the west of the wellpad. Small earthen berms are in place to prevent migration, and it appears some type of absorbent has been applied to the spill.

More follow-up is necessary to ensure proper cleanup.